Release B CDR RID Report

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RID ID	CDR	38
Review	Release B CDR	
Originator Ref		
Priority 2		

Section	**Page**	**Figure Table**

Category Name Data Server (DSS) Design   **Actionee** ECS

Sub Category

Subject Checksum on retrieve from archive

Description of Problem or Suggestion:

Whenever a file is retrieved from the archive; its checksum should be checked.

Originator's Recommendation

For example, the checksum should be checked when the data is backed up.

GSFC Response by: **GSFC Response Date**

HAIS Response by: Scott Halpine   **HAIS Schedule**

HAIS R. E. J. Smith   **HAIS Response Date** 8/13/96

Performing a checksum upon a file retrieval is already in the design. A checksum shall be performed whenever a file is retrieved from the tape archive for any reason. Backups are created from files in disk (RAID) cache. Prior to being loaded on to this disk cache, a file must be read from the tape archive and a checksum successfully performed. Once in cache on a redundant array of independent disks (RAID), the proper application of RAID technology will ensure that the file is not corrupted (it can recreate the file on the fly even if a disk dies), eliminating the need to automate additional checksums or perform a checksum on demand.

It should be noted that a performance impact will take place as a result of performing a checksum every time a file is retrieved from tape. Operations will have the option to perform a checksum as a part of file restore operations.

Status **Closed**   **Date Closed** **8/19/96**   **Sponsor** **Kobler**

****** Attachment if any ******